

**REMARKS**

**Specification**

**The abstract of the disclosure is objected to because the abstract does not describe the invention as it relates to a cleaning member of a corona wire.**

A new abstract of the disclosure is enclosed herewith. Should the Office still believe this abstract is deficient, an Office suggested abstract is welcome.

**Title**

A new title "Operating Screw with Spiral Projection Having Cylindrical Surface and Retreat Surface" is submitted herewith. Should the Office still believe this new title is deficient; a Office suggested title is welcome.

**Claim Rejections under 35 USC §112**

**Claims 6-9 are rejected under 35 USC §112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.**

Relevant claims have been amended, as needed, to overcome this rejection.  
Reconsideration and withdrawal of this rejection are respectfully requested.

**Claim Rejections under 35 USC §102**

**Claims 1 and 3-7 are rejected under 35 USC §102(b) as being anticipated by**

**Meersteiner (U.S. Patent No. 2,232,336).**

Independent claim 1 has been amended to recited:

“wherein the outer member is formed of resin with use of a plurality of mold parts associating with each other, at least two of the mold parts having a joint therebetween, the joint locating on the retreat surface.”

These features are fully disclosed by way of examples on page 12, lines 3-18, and Figure 3 and associated written description. By so amending, the advantages as expounded on page 14 lines 8-15 of the specification are realized. Specifically, “the outer member 1 is provided with retreated surfaces 3 corresponding in position to the parting lines L defined by the four mold parts 91-94. Thus, if burrs B are formed on the flat surfaces 3 due to the penetration of the molding material into the gaps at the parting lines L, the burrs B will not come into contact with the inner wall surface of the carriage 5 (see Fig. 4).”

These features and advantages are neither disclosed nor taught in the asserted prior art. Therefore, independent claim 1, as newly amended, is patentably distinguished over the asserted prior art reference. All claims dependent thereon, by virtue of inherency, are also patentably distinguished over the asserted prior art reference.

It is well settled that:

“A claim is anticipated only if each and every element *as set forth in the claim* is found, either expressly or inherently described, in a single prior art reference.”  
*Constant v. Advanced Micro-Devices, Inc.*, 848 F.2d 1567, 7 USPQ2d 1057 (Fed. Cir. 1988).”

Should the Office continue to believe that the claimed invention is anticipated by the asserted prior art, a citation of where each and every claimed feature, either as column number and

line number, or figure number and reference numeral, or a combination thereof, as disclosed in the asserted prior art is respectfully requested. Should the Office determine that any claimed feature is not disclosed in the asserted prior art, it is respectfully submitted that the claimed invention is not anticipated by the asserted prior art. Allowance of the claimed invention is then respectfully requested.

**Claim 10 is rejected under 35 USC §102(b) as being anticipated by Doi et al.  
(Japanese Patent No. 63009765 A).**

In rejecting the claimed invention, it is apparent that the Office regards the “plurality of flat surfaces alternating with the curved surfaces” recited in claim 10 as being anticipated by the flat bottom of the groove that defines the projection and is intertwined with the projection. However, it should be noted that the groove bottom is not a plurality of surfaces. It is a single continuous surface and it is curved, not flat. More specifically, the groove bottom appears as a straight line in Figure 1 of Doi, but it is curved in the direction either into or out of the paper. Therefore, it is not flat.

To more accurately reflect these distinguishing features, independent claim 10 has been amended to recite:

“wherein the spiral projection is ~~provided with~~ comprises a spiral top surface of the projection, the top surface further comprising both a plurality of curved surfaces spaced from each other and a plurality of flat surfaces alternating with the curved surfaces along the top surface.”

By so amending, independent claim 10, as newly amended, is patentably distinguished over the asserted prior art reference. All claims dependent thereon, by virtue of inherency, are also patentably distinguished over the asserted prior art reference.

Reconsideration and withdrawal of this rejection are respectfully requested.

**Claim Rejections under 35 USC §103**

**Claim 2 is rejected under 35 USC §103(a) as being unpatentable over Meersteiner (U.S. Patent No. 2,232,336) in view of Doi et al. (Japanese Patent No. 63009765 A).**

Claim 2 is concurrently canceled herewith, rendering any rejection applied thereto moot.

Reconsideration and withdrawal of this rejection are respectfully requested.

**Allowable Subject Matter**

The indication of allowable subject matter in claims 8-9 is noted with appreciation. As relevant claims are already amended to overcome the outstanding 35 U.S.C. 112, second paragraph rejection, it is believed that claims 8-9 are placed in condition for allowance.

In addition, as claim 10 is further amended to patentably distinguish over the asserted prior art, claim 10 is placed in condition for allowance even without having claim 11 being incorporated therein.

Allowance of these claims is respectfully requested.

The allowance of claim 12 is noted with appreciation.

**Prior Art Indicated To Be Pertinent To The Disclosure**

The Office has provided a list of prior art indicated to be pertinent to the Applicant's invention. Consistent with the understanding as stipulated in MPEP 706.02 that only the best prior art should be applied, this list of prior art not having been applied by the Office, it is the Applicant's understanding that the Office must have considered the listed prior art to be no more pertinent than the applied prior art of record.

**CONCLUSION**

In view of the aforementioned amendments and accompanying remarks, all pending claims are believed to be in condition for allowance, which action, at an early date, is requested.

In the event that this paper is not timely filed, Applicants respectfully petition for an appropriate extension of time. Please charge any fees for such an extension of time and any other fees which may be due with respect to this paper, to Deposit Account No. 50-2866.

Respectfully Submitted,

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